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NATIONAL OPEN UNIVERSITY OF NIGERIA UNIVERSITY VILLAGE, PLOT 91, CADASTRAL ZONE NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA FACULTY OF HEALTH SCIENCES DEPARTMENT OF PUBLIC HEALTH SCIENCE 2023 1 POP EXAMINATION

COURSE TITLE: Pharmacology and Therapeutics in Public Health

COURSE CODE: PHS810 COURSE UNITS: 2 Units TIME ALLOWED: 1½ Hours

TOTAL MARKS: 70%

INSTRUCTION: Answer ALL Questions

Question 1 (20 marks)

1a) Discuss the advantages and disadvantages of intravenous drug administration.

1b) What is the importance of drug concentration?

1c) List the physicochemical properties of a molecule that aids in its diffusion across a membrane.

Question 2 (25 marks)

- 2a) Explain the patterns involved in drug-drug interactions.
- 2b) Mention the routes involved in drug elimination.
- 2c) Mention the types of allergic reactions, giving an example for each type of allergic reaction.
- 2d) What is the mechanism of action of calcium channel blocker?
- 2e) What are the adverse effects of calcium channel blockers?
- 2f) Classify malaria infection based on the main stages of drug target.

Question 3 (25 marks)

- 3a) Digoxin is a type of cardiac glycoside of clinical importance. Explain its mode of action.
- 3b) What are the adverse effects of Digoxin?
- 3c) Mention five factors that are responsible for masking adverse drug reactions.
- 3d) Explain bioavailability.